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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,435	07/05/2001	Anand Rangarajan	10559-428001/P10442	4978
20985	7590	03/22/2005	EXAMINER	
FISH & RICHARDSON, PC 12390 EL CAMINO REAL SAN DIEGO, CA 92130-2081			CHO, HONG SOL	
			ART UNIT	PAPER NUMBER
			2662	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/900,435

Applicant(s)

RANGARAJAN ET AL.

Examiner

Hong Cho

Art Unit

2662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(b) that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 7, 8, 13 and 14 are rejected under 35 U.S.C. 102(b) as being unpatentable over Ogle et al (U.S 6052736), hereinafter referred to as Ogle.

Re claims 1-3, 7 and 13, Ogle discloses a system for routing a data packet on networks comprising a control element for managing routing tables (*a master routing device maintains a routing table*, column 4, lines 55-63), forwarding elements each receiving one of the routing tables from the control element (*a routing table is broadcast to each routing device from a master routing device*, column 2, lines 20-23) and forwarding the data packet according to the received routing table and a destination address in the data packet (column 5, lines 1-17) and a private LAN that connects the control element and the forwarding elements which are distributed across the private network (figure 1; column 5, lines 1-3).

Re claims 4, 8 and 14, it is inherent that as the packet passes through routers towards the destination, the TTL value is decremented by one at each router.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5, 6, 9-12 and 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogle in view of Anderson.

Re claims 5 and 6, Ogle does not disclose routing table received by any of the forwarding elements includes an interface port of the forwarding element through which the remote network is accessible by the forwarding element and a gateway to which the network is directly connected. Anderson discloses a routing table including gateway and interface port information. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the routing table of Ogle to include interface port and gateway information. The motivation to modify is to provide necessary routing information needed to route packets at a given router since Ogle discusses routing, therefore, it is required to have a routing table to route packets.

Re claims 9, 10, 15 and 16, Ogle does not disclose modifying an interface port to indicate a port of the forwarding element through which the network is accessible by the

forwarding element for each of the networks in the routing table before sending the routing table to one of the forwarding elements. Anderson discloses creating a routing table by a network administrator. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the routing table of Ogle by manually so that benefits of static routing such as reduction in overhead on the router CPU, no bandwidth usage between routers and network security since the administrator only allows routing to certain networks are obtained.

Re claims 11, 12, 17 and 18, Ogle does not disclose modifying a gateway field to indicate one of the forwarding elements to which the network is directly connected for each of the networks in the routing table before sending the routing table to one of the forwarding elements. Anderson discloses creating a routing table by a network administrator. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the routing table of Ogle by manually so that benefits of static routing such as reduction in overhead on the router CPU, no bandwidth usage between routers and network security since the administrator only allows routing to certain networks are obtained.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- US Patent (5835710) to Nagami et al
 - US Patent (6552997) to Inoue et al
 - US Patent (6049524) to Fukushima et al

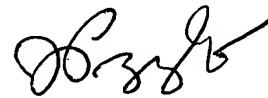
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Cho whose telephone number is 571-272-3087.

The examiner can normally be reached on Mon-Fri during 7 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3088.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hong Cho
Patent Examiner
3-11-2005



JOHN PEZZLO
PRIMARY EXAMINER